Leisure Product Range

seaPro

User Guide

EURONAV
NAVIGATION

PLEASE READ THIS FIRST!

Insurance

The security dongle has significant value and is the key to your system and your charts. It is not possible to replace lost or stolen dongles without charge for the FULL replacement value of both software and charts. YOU MUST MAKE SURE THAT YOUR DONGLE IS INSURED AGAINST THESE RISKS.

This Manual

This manual has been designed to get you up and running with the basic functions of seaPro and seaPro Lite .

It is designed to run in conjunction with the tutorials and help files within seaPro and the technical helps to be found on our web site (www.euronav.co.uk) that deal with some of the more advanced functions.

Please use the manual, help and website files before contacting us.

For the use of this system a general knowledge of PCs and their operation is assumed. For information about the operation of your PC and its capabilities please refer to a PC specialist.

Disclaimer

This product is designed to ease and speed up navigational calculations. It is not designed to replace official printed-paper charts or the navigator's responsibility to exercise common prudence. Neither Euronav Ltd nor their distributors accept responsibility or liability either to the product user or their estate for any accident, loss, injury, or damage whatsoever arising out of the use of or inability to use this product. You may be required by law to carry suitable paper charts for the passage intended.

This product uses data copyrighted to third parties. This copyright must at all times be respected, failure to do so may result in civil or criminal prosecution against you.

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Installation & Set Up

Please see the ***seaPro Quick Start Guide*** for information on how to do this.

Technical support

Additional information can be found in help files within the seaPro program (accessed via the ***Help*** menu). If you require any further technical assistance either:

1: See page 25, ***Troubleshooting***
2: contact your dealer
3: visit - www.euronav.co.uk
4: email - techsupport@euronav.co.uk

Using

seaPro

Lite & Lite+

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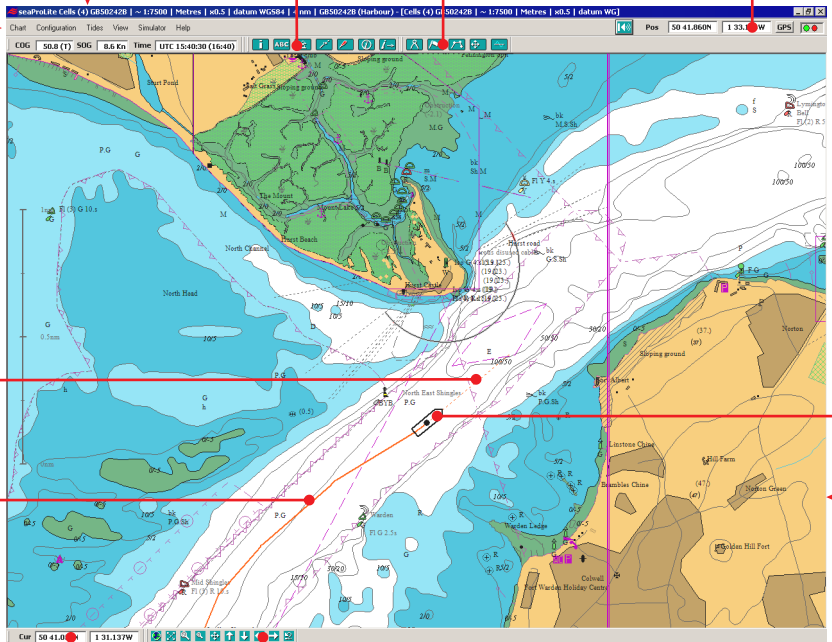
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Operating seaPro Lite

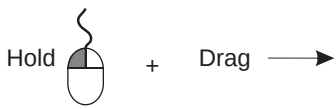
seaPro Lite is easy and intuitive to use. Some of the main functions include zooming in and out and route plotting, which, along with other functions, are reached through the toolbar or icons around the main chart window or by using the mouse.

To exit seaPro Lite at any time, choose the ***Chart*** option from the main menu and from the drop-down menu select ***Exit*** at the bottom of the list.

Zooming In and Out

seaPro Lite allows you to zoom into the area you have defined, showing more detail and a clearer image (with vector charts).

To zoom in



1: Hold down the left mouse button and draw a box by moving the mouse cursor up and right over the area of interest.

2: When you have outlined the area you want to zoom into, release the left mouse button.

To zoom out

1: Click once over the chart window with the right mouse button and seaPro will zoom out one level.

Panning

1: Place your mouse cursor near the edge of the chart window in the direction you wish to pan, it will turn to a large blue arrow.

2: Left click when you see the large blue arrow to pan in that direction.

You can also zoom and pan using the Zoom/Pan toolbar.

Toolbar Functions

Navigation Utilities (left to right) - Located at the top right hand corner of the screen

Show Additional Chart Info - This allows you to find out more information about the chart displayed (e.g. when the chart was issued).

Show Chart Text - This tool allows you to display the text normally displayed on the paper chart.

Inquire Mark - This tool allows you to display information on a particular mark. Click on the tool, then place the cursor on the required mark and left click to display the information.

Inquire Line - This tool allows you to find out more information about a contour e.g. depth contour line.

Animate Lights - This tool allows you to turn the animated (flashing) light feature on or off (marks flash as per their real flashing sequence) on certain charts.

Measure Tool - This tool allows you to measure the distance and bearing between two points.

Show information point - This tool allows you to show extra information points on your chart (if available).

Database Information - This tool allows you to enquire about marks and other information stored on an overlay database (e.g. the Boatlaunch database).

Marker Flag - The marker flag tool allows a position of interest to be marked on the chart. Pressing the left mouse button marks the current cursor position with a marker flag, pressing the right button cancels the operation. You can only have one marker flag up at a time.

Route Tool - This tool opens the create route dialog box that allows you to create, edit and select previous routes. Simply left click to place way points on your chart.

Chart Auto-Scroll - This is only active if your GPS is connected. When selected it maintains the vessel roughly centred on the screen scrolling the chart automatically as the vessel moves.

Tidal Curve - If you have purchased the additional tidal curve data you can use this tool to select a port and display its tidal curve.

Zoom/Pan Toolbar

This toolbar contains tools for moving around the chart, e.g. zoom in/ out/ pan etc. The 1:1 tool can only be used with raster charts to get the best display resolution and is only available on seaPro Lite +.

Route Plotting

seaPro Lite allows you to easily enter and visualize your chosen route.

Making and planning a route

- Click this button to start a route. This will open the route dialogue box. Follow the instruction below to make the route.

1: Click on ***New*** to create a new route.

2: Type in a name for the route or use the default name and click ***OK***.

3: Click on ***Add*** then enter the required waypoints directly on the chart. To do this, place your cursor on your starting point, left click and repeat this until you reach your desired destination. Right click to terminate. Bearings and distances are automatically calculated, and displayed close to each waypoint, with a total distance on the last one.

4: Modify the waypoints as required by selecting the ***Add, Delete, Move*** or ***Insert*** buttons on the route dialogue box.

5: Once the route is complete zoom in and look along your route to check that you do not cross any dangerous areas etc. and the route is correct.

6: Press ***Start*** to start your passage and view bearings and distance to the next waypoint.

7: Select the ***Off*** option to terminate, or close the toolbar window if you wish to leave the route on the screen.

Tidal curves

- Click this icon to select a tidal curve

With the optional tidal curve module installed you can simply click on the tidal curve icon which will turn your cursor into a target symbol. Just click on the tidal station you wish to view (marked by small cyan squares) and a curve will appear.

AIS Display

Your seaPro Lite can display AIS targets when connected to a suitable AIS receiver that can output NMEA 0183 (such as Euronav's AI3000).

With the receiver connected click on ***Setup*** then ***Serial Ports*** to set up seaPro Lite to read the correct serial port, then within seaPro Lite click ***View*** then ***Show AIS Toolbar***. Use the setup button (last button on the right of the AIS toolbar) to switch AIS functionality on/off, enable CPA/TCPA and alter the information displayed for the AIS targets.

Please allow a few minutes to acquire targets, it can take a little while! If no targets are seen check the antenna and that you can actually see ships likely to have AIS transponders installed.

Additional Information

Any additional information can be found in the tutorial and help files within the seaPro Lite program (accessed via the ***Help*** menu). If you require any further technical assistance either:

1: contact your dealer
2: visit - www.euronav.co.uk
3: email - techsupport@euronav.co.uk

Upgrading

You can upgrade seaPro Lite National Pack at any time to have more functionality such as tidal information, advanced waypoints and route planning, weather information etc. Other products include seaPro Standard, seaPro Performance Sailing and seaPro Plus. Your charts will remain on your PC for use with the new program.

Using

seaPro

Standard, Sailing & Plus

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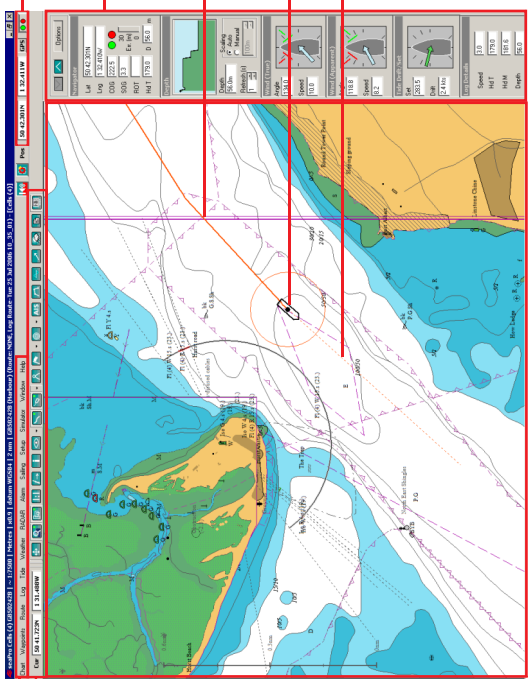
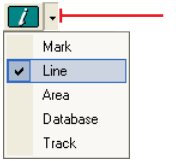
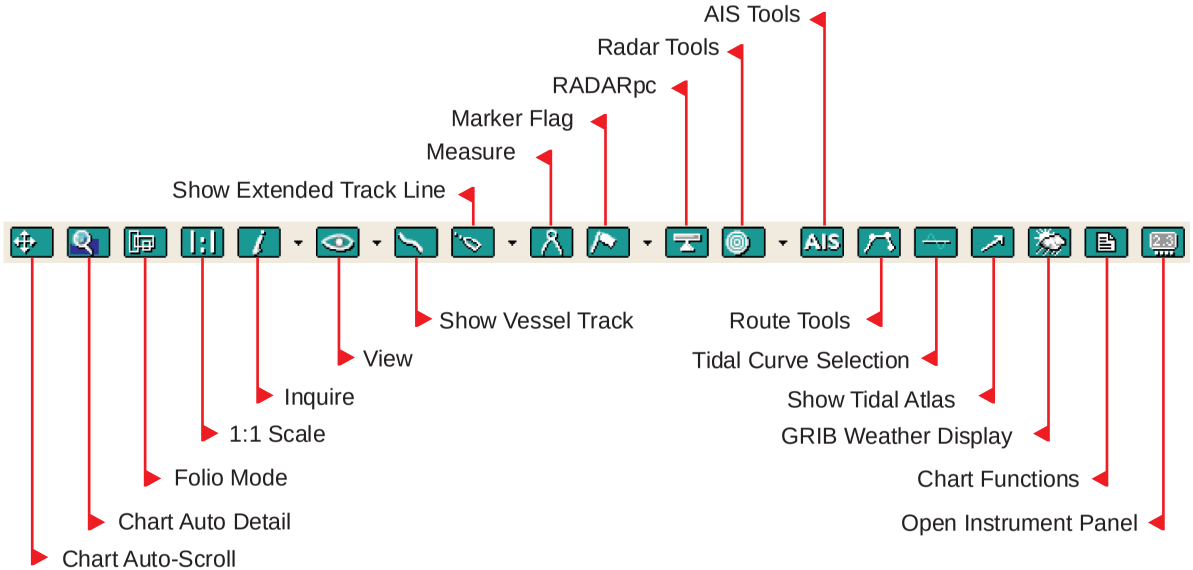
Display Overview





Where an icon has a down arrow next to it, click it to reveal a menu with more functions



Toolbars

Opening toolbars

Many of the toolbars in seaPro will automatically appear when a particular function is selected (eg tidal streams), however it is possible to open the toolbars at any time you wish by either:

a) Click on ***Setup*** then ***Toolbars***
b) Right click on the menu bar at the top

Docking toolbars

The main toolbar and cursor position indicator are fixed at the top of the chart window but all other toolbars maybe docked at either the top or bottom of the screen for convenience

Night Mode

seaPro has a built in feature to dim the screen for use at dusk or at night time. Simply click on ***Chart*** then ***Colors...*** and select the display mode you wish.

There are parts of the Windows operating system that seaPro can not dim. For best results set the Windows taskbar to autohide and the Windows desktop theme to 'Windows Classic'.

Charts and Chart Windows

Select ***Chart*** then ***Settings*** to enhance/alter your display of charts. Click on the ***Chart Directories*** tab to switch on and off different chart types to view.

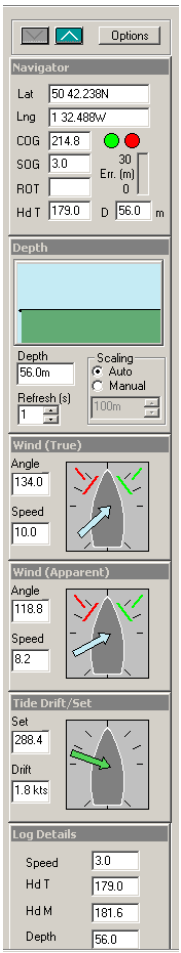
seaPro can display many chart windows showing different views. Click on ***Chart*** then ***New Window*** for a chart window on your current monitor or ***New Window (Multi-monitor)*** if you would like to put the chart window on either a separate monitor or to occupy the full screen.

Panel

- Click this button to toggle the panel on and off.

To change the information displayed in the Panel click the ***Options*** button.

NOTE: seaPro will only show the information from the instruments that are connected to your PC.



The items you can see in the Panel are:

Navigator GPS information

Plan
Gives you original information from your planned route.

Actual
Updated information on your planned route against your actual position/speed/direction.

Target Marker
If a target marker is dropped from using the icon bar your distance and bearing to the marker is constantly updated.

Wind Apparent and True

Tide/Current Indicator

Log

ARPA Radar Target TCPA/CPA

AIS Target TCPA/CPA

Depth

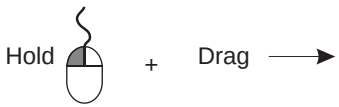
Temperature

You can scroll through the panel items by either the toggle buttons, the scroll wheel on your mouse or by clicking and dragging.

Zooming and Panning

seaPro allows you to zoom into the area you have defined, showing more detail and a clearer image (with vector charts).

To zoom in



1: Hold down the left mouse button and draw a box by moving the mouse cursor up and right over the area of interest.

2: When you have outlined the area you want to zoom into, release the left mouse button.

To zoom out

1: Click once over the chart window with the right mouse button and seaPro will zoom out one level.

Panning

1: Place your mouse cursor near the edge of the Chart window in the direction you wish to pan, it will turn to a large blue arrow.

2: Left click when you see the large blue arrow to pan in that direction.

You can also move around the chart using the arrow keys on your keyboard or the icons on the ***Zoom / Pan*** toolbar (click on ***Setup*** then select ***Toolbars***, tick ***Zoom/Pan*** B***ar***) .

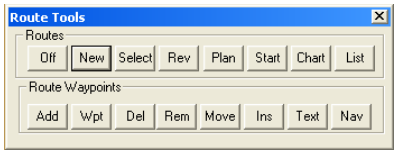
To Select a Chart

Click once with your left mouse button within a chart (a chart is signified by a purple or blue box), or go to ***Chart*** and click on ***Select.***

Routes and Route Planning

Entering a Route

- Click this button to open ***Route Tools***.



1: Select ***New***.
2: Enter your route name and click ***OK***.
3: Click ***Yes*** to start a new log for the route.
4: Insert waypoints by one of two ways:

a) Select ***Add*** from ***Route Tools*** then left click on the chart to place waypoints. Right click when done.
b) Select ***Wpt*** from ***Route Tools***, pick a waypoint from the waypoint list and click ***Add***. When done click ***OK***.

Planning a Route

1: Select ***Plan*** from ***Route Tools***.
2: Enter start date and time of your departure in the *Start Date and Time* window.
3: Enter your vessel speed.
4: Click on ***Calculate Plan***.

Finding Best Departure Time

1: Select ***Plan*** from the ***Route Tools***.
2: Enter the desired date of departure in the *Start Date and Time* window.
3: Enter predicted boat speed.
4: Click ***Build Graph***.

To Activate the Route

Click the ***Start*** button on ***Route Tools*** to activate the route and send any data to your instruments/autopilot.

Tides

Create Tidal Atlas

1: Select ***Chart*** from the menu bar and select ***Folio***.
2: Click on Create ***Tidal Atlas***.
3: Click ***OK*** when done.

Viewing the Tidal Atlas

- Click this button to show the tidal streams and open the Tidal Atlas toolbar.

Use the Tidal Atlas Toolbar to:

a) View tides at a particular time.
b) View tides updated in real time.
c) Estimate rate and direction of the tide at a specific point.
d) Show the area considered to be affected by an individual tidal diamond.

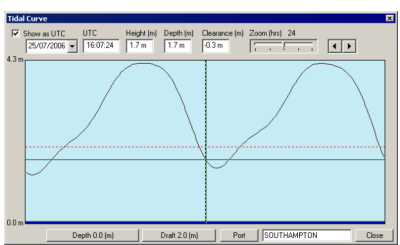
Because the Tidal Atlas is based on tidal prediction there is no guarantee as to the accuracy of the tidal database used within seaPro. The prediction can be dramatically affected by changes in the atmospheric pressure and other weather conditions.

Viewing the Tidal Curve Window

- Click this button to select a tidal station.

Use the cross hairs to select a tidal station indicated by a cyan square on your chart.

Use the mouse to drag the cross hairs across the graph to determine a tidal height at a particular time.



Weather

- Click this button to open the ***GRIB weather toolbar***

1: From the GRIB toolbar click the open icon (furthest icon on the left of the toolbar).
2: Find the GRIB file you have downloaded select it and click ***Open***.

To find GRIB files for weather go to the Euronav website (www.euronav.co.uk) for the latest sites.

Weather Routing

1: Select ***Sailing*** from the menu bar.
2: Select ***Weather routing***.
3: Click on ***Set Start/End points***.
4: Left click where you want to start and end your route then click ***Next***.
5: Enter the weather information by either:

a) Using a GRIB weather file downloaded from the internet.
b) Enter the weather forecast manually in the boxes provided.

Click ***Next*** when done.

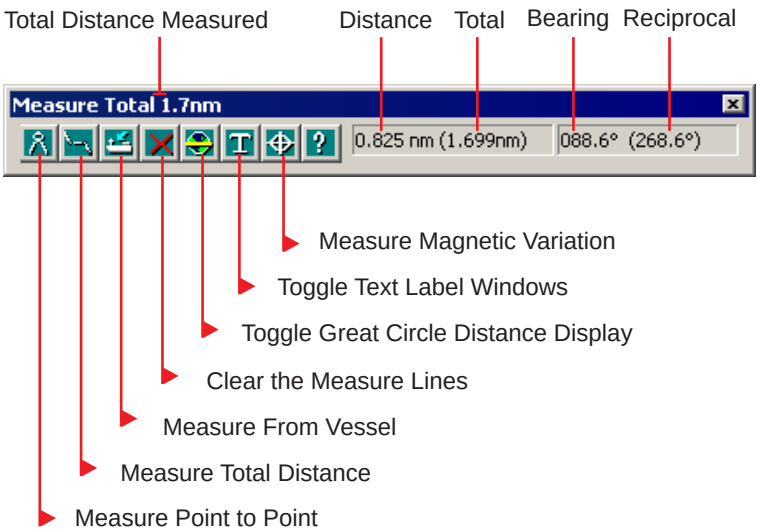
6: Enter the time interval at which you want seaPro to read the wind and tide.
7: Enter the arrival distance. seaPro will endeavour to find the best route to the “arrival circle”.
8: Set the start date and time.
9: Click ***Plan.***
10: Click ***Next.***
11: Your best route with wind indicators will be shown on your chart.

Please make sure the time taken to complete your voyage is less than the time span of your GRIB file. seaPro can’t complete its calculations if there is not sufficient weather data and will show an error message if this is the case.

Measuring

You can use your seaPro to measure distances from point to point or for a total distance over many points.

- Click this button to open the ***Measure*** toolbar



To measure select the appropriate measure tool (***Measure, Measure total distance, Measure from vessel*** etc.). Your mouse pointer should then turn into a 'cross hairs' when moved over the chart window. Left click to place points and if using ***Measure Total Distance*** right click to finish.

The information on your screen can be toggled on and off using the ***Toggle Text Label*** button.

To measure a great circle first put in a normal point to point measure then click on the ***Toggle Great Circle Distance Display*** button

Magnetic variation can be seen by clicking on the ***Measure Magnetic Variation*** button and clicking any chosen point within the chart window.

AIS (Automatic Identification system)

seaPro has the built in capability to interface with a suitable AIS receiver, such as Euronav's AI3000.

- Click this button to open the AIS toolbar

Use the ***select vessel*** button (on the far left) on the toolbar to select a vessel to interrogate, or use the other buttons to use other AIS functions within seaPro.

Setup of the AIS functionality within seaPro is easy, simply click the ***Settings*** button on the AIS toolbar (last button on the right) and set up all the functionality of AIS in seaPro.

CPA/TCPA

Potential collisions will be alerted to you by circling the 'dangerous' vessels with a red circle and the PC emitting a warning tone. Settings for collision warnings can be set by clicking the ***Settings*** button on the AIS toolbar.

Trouble shoot AIS

Once you have set up your AIS receiver and made sure that the AIS functionality is turned on in seaPro (enter ***Setup*** from the AIS toolbar then tick ***Enable UAIS***) you will start to see AIS targets appearing on your charts. If the targets do not appear check:

1) There are AIS equipped vessels within AIS range of your antenna and that they are within your 'line of sight'.

2) There is power to your AIS receiver and it is on.

3) Your VHF antenna is of the right type, mounted correctly and working.

4) The correct serial port is set up within seaPro to receive the NMEA data from your AIS receiver (click ***Setup*** then ***Serial Ports*** to do this).

Radar

ARPA Radar

- Click here to open the RADAR toolbar

With seaPro connected to your ARPA radar the radar targets will be shown overlayed on your chart window.

Using the RADAR toolbar you can select a particular vessel to follow, and pull up a list of targets with their TCPA/CPA to help avoid collision.

RADARpc

Connecting the RADARpc is simple.

Once the radar black box has been set up and plugged into the ethernet port of your PC start seaPro.

Click on ***AIS/Radar*** and select ***Radar Settings...*** Tick ***Enable PC RADAR*** then restart seaPro.

seaPro will automatically search and find the RADARpc when seaPro is started.

- The PC RADAR icon will now be on your main toolbar. Click this to open the radar settings and adjustments. Click the ***TX*** button to start the radar.

seaPro's implementation of RADARpc is a flexible and has several display modes:

Full window multi monitor - Click the RADARpc icon then click the ***Image*** button.

Separate window in seaPro - Click on ***AIS/RADAR*** then click on ***PC RADAR Window***.

Overlayed image on chart - Within the PC RADAR settings window tick ***Show on chart***. The PC RADAR function can auto range to match your zoom level, simply tick ***Auto range*** to activate this function.

Troubleshooting

Should you encounter any problems with the installation or use of seaPro, don't panic, help is at hand.

Technical support is available in the form of online help, within the seaPro program (just click on ***Help,*** it's what it's there for), the technical pages on our web site (www.euronav.co.uk) or you can email us at:

techsupport@euronav.co.uk

In the following pages you will find the most common problems which are encountered with the use of a PC and seaPro.

seaPro Restarts Unexpectedly

If seaPro does not install properly, is slow to zoom and pan, crashes when you build folio or when a menu item is selected, etc, your computer may be at fault.

You may need to turn down (or switch off) your computers Hardware Acceleration to do this in Windows XP do the following:

1: Shut down all programs you may be running.
2: Right click the mouse on the desktop and select ***Properties*** from the drop down menu.
3: From the Display Properties window select the ***Settings*** tab.
4: Click the ***Advanced*** button.
5: Select the ***Troubleshoot*** tab from the windows that opens.
6: Adjust the ***Hardware Acceleration*** as desired then click ***OK***.

Note: It is best to start with the Hardware Acceleration on the lowest setting.

These instruction may differ for Windows 2000 or Vista please contact your PC supplier for more information if required.

If this solves the problem then you have a bad or old graphics card driver on your PC. Contact your PC supplier or manufacturer for advice on possible updates and fixes.

Note: For a lot of programs the acceleration setting will make little difference to their PC performance

How do I get back to my boat's location?

This is controlled by the chart auto-scroll button (see page 15 for the location of this button).

When it is 'on' a green dot will appear in the corner of the button and seaPro will follow your boat.

I can't zoom or pan away from my boat's position

This is controlled by the chart auto-scroll button (see page 15 for the location of this button).

Switch this button to 'off', you can then zoom and pan around your charts with complete freedom.

When I zoom/pan my chart keeps zooming out to a much smaller scale chart

When you're zooming/panning, you are exceeding the limits of the chart you are using, i.e. the area you are moving to, cannot be completely shown by the chart you are on. In these cases seaPro will automatically offer a chart which can cover the entire area you have selected.

To rectify this either:

a) Switch "Folio mode" off. Use the Folio Mode icon on the main toolbar.
b) Ensure that, when zooming into an area, you draw the zoom box within the magenta limits of that chart.
c) Increase your chart coverage in that area, to reduce the chances of being moved on to an unsuitably large-scale chart.

I can't see any tidal arrows

This is because either there are no tidal arrows in the area you are looking or the tidal atlas is out of date.

If your tidal atlas is out of date please visit the Euronav website (www.euronav.co.uk) for information and downloads of the latest tidal data.

I can't see my boat

This can be caused by:

a) GPS incorrectly setup.
b) seaPro incorrectly setup.
c) GPS incorrectly wired to the computer.

How to rectify:

Find the interface or communications setup screen on your GPS. Ensure that the GPS is set to NMEA to NMEA. seaPro uses NMEA 0183, recommended baud rate 4800.

In seaPro go to ***Setup***, then click ***Serial Ports...*** . Click on ***AUTO SCAN*** to locate the GPS and set its correct com port.

I can't see my charts

This is caused by either:

a) Charts not being installed correctly
b) Folio mode being turned off

How to rectify:

Make sure the charts have been installed then in seaPro click on ***Chart*** then ***Folio***. Make sure the appropriate chart folder is ticked (if in doubt tick them all) and click ***Create folio***. When done click ***Close***. If your charts are still not visible to you click on the folio mode icon on the main toolbar (it should have a green dot in the corner).

My charts are almost black with text and detail

This is caused by:

a) Auto-detail mode is switched off.

How to rectify:

Click on the Auto Detail icon on the main toolbar, it's the one that looks like a magnifying glass. In normal operation it will have a green dot in the corner.